8.1 FMEA Number - 01

o Date = 9=9=86 S40210L
o Revision = N/C ATTACHMENT =
o System = Audio Page 5 or 9

- O Assembly Very Lightweight Headset (YLHS)
- o Part Number SED16101291-305
- o Item Name Microphone
- Reference Designation None
- Quantity per Assembly = 1
- Function Receives voice input and converts to electrical signal
- Failure Mode Loss of output signal; loss of microphone element function
- o Failure Cause- Transducer wiring or mechanical failure caused by contamination by food, physical abuse, mechanical shock, or transducer failure.
- o Mission Phase Orbit
- o Failure Effect on End Item Loss of Communication
- o Failure Effect on Interface Hone
- o Failure Effect on Mission Mone
- o Fallure Effect on Crew None
- Failure Effect on Vehicle Hone
- o Failure Detection on Ground Performance Test, Voice Test
- n Failure Detection during Flight Voice Test
- o Correcting Action Use spare VLHS, HWM, or LEH
- O Criticality (Hardware/Functional) 3/1R
- o Time Required to take Corrective Action Estimated 5 minutes
- o Time Available to take Corrective Action Veriable
- Remerks/Hazards The YLHS has proven to be a reliable communication device throughout the Shuttle Program. Spare units are flown for use in case of a failure, and two other means of communication (HHM and LEH) are also on board each mission.